


FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 	ATTY. DOCKET NO. ENT/5		APPLN. NO. 10/729,542
	APPLICANT Nicholas J. Archer and Anita H. Lewin		CONFIRMATION NO. 1916
	FILING DATE December 5, 2003		GROUP 1625

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SA	2,893,996	07/07/59	Rudner and Prapas	260	292	
	2,948,730	08/09/60	Rudner and Prapas	260	292	
	4,469,700	09/04/84	Somers	424	265	
	4,512,996	04/23/85	Somers	514	304	
	4,556,663	12/03/85	Somers	514	304	
	5,376,667	12/27/94	Somers et al.	514	304	
	5,525,613	06/11/96	Wynn et al.	514	304	
	5,559,123	09/24/96	Somers et al.	514	304	
	5,663,345	09/02/97	Somers et al.	546	127	
	5,763,456	06/09/98	Wynn et al.	514	304	
SA	6,077,848	06/20/00	Wynn et al.	514	304	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
SA	W.H. Anderson and D.T. Stafford, "Applications of Capillary Gas Chromatography in Routine Toxicological Analyses," <i>J. High Resolut. Chromatogr., Chromatogr. Commun.</i> , 6, pp. 247-254 (1983)
SA	E.J. Ariëns and A.M. Simonis, "A Molecular Basis for Drug Action. The Interaction of One or More Drugs with Different Receptors," <i>J. Pharm. Pharmacol.</i> , 16, pp. 289-312 (1964)

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5/2/05

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<i>JA</i>	M.R. Bell and S. Archer, "L(+)-2-Tropinone," <i>J. Amer. Chem. Soc.</i> , 82, pp. 4642-4644 (1960)
	R. Bingham, "Esterene in the Treatment of Rheumatoid Arthritis," <i>Arthritis News Today</i> , 2(7), pp. 1-4 (1980)
	C.S. Boyer and D.R. Petersen, "Enzymatic Basis for the Transesterification of Cocaine in the Presence of Ethanol: Evidence for the Participation of Microsomal Carboxylesterases," <i>J. Pharmacol. Exp. Ther.</i> , 260(3), pp. 939-946 (1992)
	M.R. Brzezinski et al., "Convenient Synthesis of Benzoylcegonine Ethyl Ester, a Homolog of Cocaine," <i>Synth. Commun.</i> , 22(7), pp. 1027-1032 (1992)
	R.D. Budd, "Cocaine Radioimmunoassay - Structure Versus Reactivity," <i>Clin. Toxicol.</i> , 18(7), pp. 773-782 (1981)
	H. Bundgaard, "Design of Prodrugs: Bioreversible Derivatives for Various Functional Groups and Chemical Entities," <i>Design of Prodrugs</i> , Elsevier, Amsterdam, pp. 1-2 (1985)
	G. Calmels and E. Gossin, "De la Constitution Chimique de la Cocaine," <i>CR Hebd Seances Acad Sci.</i> , 100, pp. 1143-1146 (1885)
	D.T. Chia and J.A. Gere, "Rapid Drug Screening Using Toxi-Lab [®] Extraction Followed by Capillary Gas Chromatography/Mass Spectroscopy," <i>Clin. Biochem.</i> , 20, pp. 303-306 (1987)
	A.J. Clark, "The Antagonism of Acetyl Choline by Atropine," <i>J. Physiol.</i> , 61, pp. 547-556 (1926)
	T. Cohen et al., "The Direction of Opening of Styrene Oxide by Acetic Acid," <i>J. Org. Chem.</i> , 27, p. 814-819 (1962)
	E.J. Cone et al., "Testing Human Hair for Drug of Abuse. II. Identification of Unique Cocaine Metabolites in Hair of Drug Abusers and Evaluation of Decontamination Procedures," <i>J. Anal. Toxicol.</i> , 15, pp. 250-255 (1991)
	C. Csongar et al., "Synthesis of Bis-Tetrazoles with 2-Phenyl-2H-Tetrazol-5-Carboxylic Acid Chloride," <i>J. f. prakt. Chemie.</i> , 329(6), pp. 1111-1115 (1987)
	R.A. Dean et al., "Human Liver Cocaine Esterases: Ethanol-Mediated Formation of Ethylcocaine," <i>FASEB J.</i> , 5, pp. 2735-2739 (1991)
	A. Einhorn and A. Marquardt, "Ueber Rechtscocaïn," <i>Chem. Ber.</i> , 23, p. 468-474 (1890)
	F. Fish and W.D.C. Wilson, "Excretion of Cocaine and its Metabolites in Man," <i>J. Pharm. Pharmac.</i> , 21 Suppl., pp. 135S-138S (1969)
	J.R. Fozard et al., "Structure-Activity Relationship of Compounds which Block Receptors for 5-Hydroxytryptamine on the Sympathetic Nerves of the Rabbit Heart," <i>Br. J. Pharmacol.</i> , 61(3), pp. 499P-500P (1977)
<i>JA</i>	J.R. Fozard et al., "Blockade of Serotonin Receptors on Autonomic Neurones by (-)-Cocaine and Some Related Compounds," <i>Eur. J. Pharmacol.</i> , 59, pp. 195-210 (1979)

EXAMINER

S. Huang

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JH	J.H. Gaddum, "The Action of Adrenalin and Ergotamine on the Uterus of the Rabbit," <i>J. Physiol.</i> , 61, pp. 141-150 (1926)
	J.H. Gaddum, "The Quantitative Effects of Antagonistic Drugs," <i>J. Physiol.</i> , 89, pp. 7P-9P (1937)
	J.M.G. Galvez and A.P. de Abram, "Cocaina: Avances en su Investigacion," <i>Bol. Soc. Quim. Peru</i> , 56, pp. 12-20 (1989)
	C. Hansch and W.J. Dunn, III, "Linear Relationships Between Lipophilic Character and Biological Activity of Drugs," <i>J. Pharm. Sci.</i> , 61, pp. 1-19 (1972)
	W.L. Hearn et al., "Cocaethylene is More Potent than Cocaine in Mediating Lethality," <i>Pharmacol. Biochem. Behav.</i> , 39(2), pp. 531-533 (1991)
	W.L. Hearn et al., "Cocaethylene: A Unique Cocaine Metabolite Displays High Affinity for the Dopamine Transporter," <i>J. Neurochem.</i> , 56(2), pp. 698-701 (1991)
	G.W. Hime et al., "Analysis of Cocaine and Cocaethylene in Blood and Tissues by GC-NPD and GC-Ion Trap Mass Spectrometry," <i>J. Anal. Toxicol.</i> , 15, pp. 241-245 (1991)
	P. Jatlow et al., "Cocaethylene: A Neuropharmacologically Active Metabolite Associated with Concurrent Cocaine-Ethanol Ingestion," <i>Life Sci.</i> , 48(18), pp. 1787-1794 (1991)
	J.L. Katz et al., "Comparative Behavioral Pharmacology and Toxicology of Cocaine and its Ethanol-Derived Metabolite, Cocaine Ethyl-Ester (Cocaethylene)," <i>Life Sci.</i> , 50(18), pp. 1351-1361 (1992)
	A. Leo et al., "Partition Coefficients and Their Uses," <i>Chemical Reviews</i> , 71, pp. 525-616 (1971)
	A.H. Lewin et al., "2 β -Substituted Analogues of Cocaine. Synthesis and Inhibition of Binding to the Cocaine Receptor," <i>J. Med. Chem.</i> , 35(1), pp. 135-140 (1992)
	T. Lukaszewski and W.K. Jeffery, "Impurities and Artifacts of Illicit Cocaine," <i>J. Forensic Sci.</i> , 25(3), pp. 499-507 (1980)
	J. March, <i>Advanced Organic Chemistry</i> , Second Edition, McGraw-Hill Book Company, New York, p. 363 (1977)
	H.H. McCurdy, "Quantitation of Cocaine and Benzoylecgonine after JETUBE [®] Extraction and Derivatization," <i>J. Anal. Toxicol.</i> , 4, pp. 82-85 (1980)
	<i>Medical World News</i> , "FP Giving Cocaine for Arthritis is Beset but Gains a Major Ally," pp. 19-20 (1979)
JH	A.L. Misra et al., "Physiologic Disposition and Metabolism of [³ H]Ecgonine (Cocaine Metabolite) in the Rat," <i>Res. Commun. Chem. Pathol. Pharmacol.</i> , 8(1), pp. 55-63 (1974)

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<i>SM</i>	A.L. Misra and S.J. Mule, "Calcium-Binding Property of Cocaine and Some of its Active Metabolites-Formation of Molecular Complexes," <i>Res. Comm. Chem. Pathol. Pharmacol.</i> , 11(4), pp. 663-666 (1975)
	A.L. Misra et al., "Disposition of [³ H]Benzoynorecgonine (Cocaine Metabolite) in the Rat," <i>Res. Commun. Chem. Pathol. Pharmacol.</i> , 13(4), pp. 579-584 (1976)
	A.L. Misra et al., "Estimation and Disposition of [³ H]Benzoylecgonine and Pharmacological Activity of Some Cocaine Metabolites," <i>J. Pharm. Pharmac.</i> , 27, pp. 784-786 (1975)
	C. Moore et al., "Determination of Cocaine and its Metabolites in Brain Tissue Using High-Flow Solid-Phase Extraction Columns and High-Performance Liquid Chromatography," <i>Forensic Sci. Intl.</i> , 53(2), pp. 215-219 (1992)
	S.J. Mule et al., "Intracellular Disposition of [³ H]-Cocaine, [³ H]-Norcocaine, [³ H]-Benzoylecgonine and [³ H]-Benzoynorecgonine in the Brain of Rats," <i>Life Sci.</i> , 19, pp. 1585-1596 (1976)
	A. Pautard-Cooper and S.A. Evans, Jr., "Mechanistic Implications of 1,3,2λ ⁵ -Dioxaphospholanes in the Mitsunobu Reaction," <i>J. Org. Chem.</i> , 54, pp. 2485-2488 (1989)
	M. Perez-Reyes and A.R. Jeffcoat, "Ethanol/Cocaine Interaction: Cocaine and Cocaethylene Plasma Concentrations and Their Relationship to Subjective and Cardiovascular Effects," <i>Life Sci.</i> , 51(8), pp. 553-563 (1992)
	M. Polášek and B. Gaš., "Determination of Limiting Ionic Mobilities and Dissociation Constants of Some Local Anaesthetics," <i>J. Chromatogr.</i> , 596, pp. 265-270 (1992)
	R.H. Prager and Z. Yurui, "Preparation of Carboxylate Esters of Polyhydric Alcohols by Using a Sulfonated Charcoal Catalyst," <i>Aust. J. Chem.</i> , 42(6), pp. 1003-1005 (1989)
	F.K. Rafta and R.L. Epstein, "Identification of Cocaine and its Metabolites in Human Urine in the Presence of Ethyl Alcohol," <i>J. Anal. Toxicol.</i> , 3, pp. 59-63 (1979)
	M.E.A. Reith et al., "Locomotor Effects of Cocaine, Cocaine Congeners, and Local Anesthetics in Mice," <i>Pharmacol. Biochem. Behav.</i> , 23, pp. 831-836 (1985)
	M.E.A. Reith et al., "Structural Requirements for Cocaine Congeners to Interact with [³ H]Bactachotoxinin a 20-α-Benzoate Binding Sites on Sodium Channels in Mouse Brain Synaptosomes," <i>J. Biol. Chem.</i> , 261(16), pp. 7300-7305 (1986)
	M.E.A. Reith et al., "Structural Requirements for Cocaine Congeners to Interact with Dopamine and Serotonin Uptake Sites in Mouse Brain and to Induce Stereotyped Behavior," <i>Biochem. Pharmacol.</i> , 35(7), pp. 1123-1129 (1986)
<i>SM</i>	S.M. Roberts et al., "Cocaethylene Hepatotoxicity in Mice," <i>Biochem. Pharmacol.</i> , 43(9), pp. 1989-1995 (1992)

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<i>SH</i>	S.M. Roberts et al., "An Assay for Cocaethylene and Other Cocaine Metabolites in Liver Using High-Performance Liquid Chromatography," <i>Anal. Biochem.</i> , 202, pp. 256-261 (1992)
	R.H. Rohrbaugh and P.C. Jurs, "Prediction of Gas Chromatographic Retention Indexes for Diverse Drug Compounds," <i>Anal. Chem.</i> , 60(20), pp. 2249-2253 (1988)
	H.-L. Schmidt and G. Werner, "Synthetischer Einbau von ¹⁴ C in (-)-Cocain, (-)-Ekgonin und Derivate," <i>Ann.</i> , 653, pp. 184-194 (1962)
	R.M. Smith, "Ethyl Esters of Arylhydroxy- and Arylhydroxymethoxycocaines in the Urines of Simultaneous Cocaine and Ethanol Users," <i>J. Anal. Toxicol.</i> , 8(1), pp. 38-42 (1984)
	R.P. Stephenson, "A Modification of Receptor Theory," <i>Br. J. Pharmacol.</i> , 11, pp. 379-393 (1956)
	D.L. von Minden and N.A. D'Amato, "Simultaneous Determination of Cocaine and Benzoylcegonine in Urine by Gas-Liquid Chromatography," <i>Anal. Chem.</i> , 49(13), pp. 1974-1977 (1977)
	G. Werner and K.-H. Störr, "Labelled Tropane Alkaloids. VI. Syntheses of [N-methyl-T ₁]Psicain-neu and of Polytopically Tritiated Psicain," <i>Liebigs Ann. Chem.</i> , pp. 1650-1654 (1974)
	J.J. Woodward et al., "Cocaethylene Inhibits Dopamine Uptake and Produces Cocaine-Like Actions in Drug Discrimination Studies," <i>Eur. J. Pharmacol.</i> , 197, pp. 235-236 (1991)
<i>SH</i>	I. Zimányi et al., "Effect of Cocaine and Cocaine Congeners on Veratridine-Induced Depolarization in Mouse Cerebrocortical Synaptoneurosomes," <i>J. Neurosci. Res.</i> , 22, pp. 201-208 (1989)

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